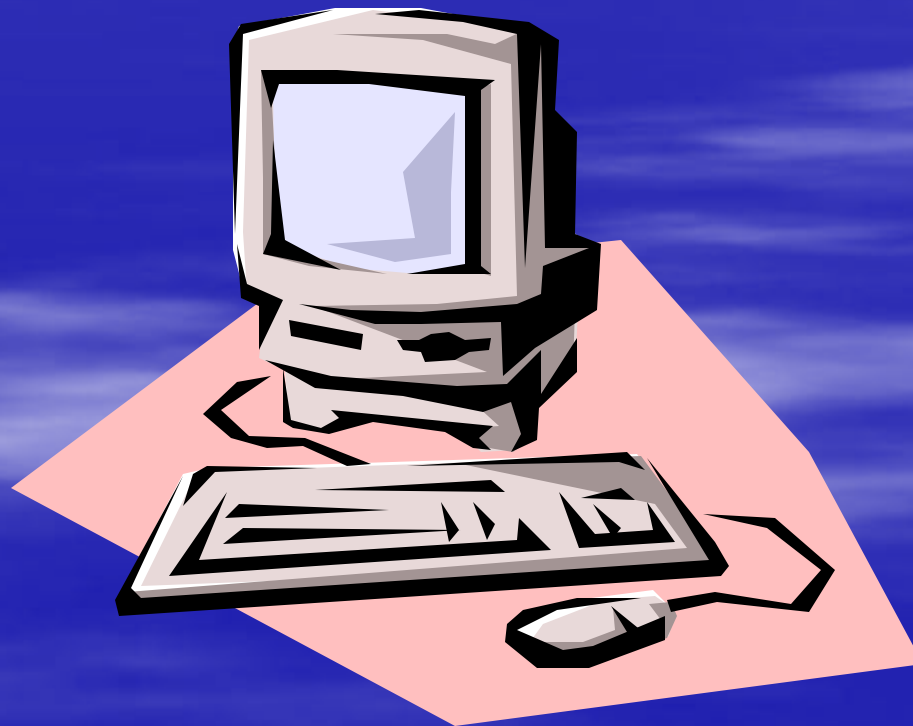


Eulogy for our dear friend

The Data Collection Center





The Data Collection Center, “DCC”

1997 – 2001



“She lived her life as if a candle
burning at both ends”



Her humble beginnings

- She and I both were born in NC, she in a computer room at MCNC
- EPA New England (Region 1) raised her in her infancy, teaching her to walk, then quickly to run
- EPA-RTP adopted her and saw her through her troublesome teenage years
- At EPA, she grew into a mature, and some might say, beautiful, data collection system

Significant moments in her journey

- March 1998: EPA files papers to adopt DCC from her childhood home, New England.
- May 1998: DCC “debuts” for ozone season in her new hometown of Research Triangle Park, NC.
- May 1998 – January 2000: DCC enters what has come to be known as her “renaissance period”, an almost 2 year run of nearly flawless performance.
- February 2000: EPA’s firewall threatens to cut off her very lifeblood, but she prevails after EPA develops the famous “mirror”. However, her will to fight is damaged in the encounter.

More significant moments

- April 2000: EPA begins discussing a new DCC with Sonoma Technologies. Despite facing her imminent demise, DCC continues to valiantly process data.
- June 2001: EPA staff travel to Petaluma, CA to preview the redesigned DCC, christening it the Data Management Center (DMC)
- October 30, 2001: DCC ends what will be her final ozone season, processing her last OBS file.

DCC is Survived By. . .

- Her children
 - MapGen – a quirky young mapping program, responsible for the ozone movies
 - The Forecast System – about to be redesigned by Sonoma
- Her Parents
 - EPA Region I, MCNC, et al

Warning! Violent Content

- ***The following video contains subject matter that may prove disturbing to IT professionals. Viewer discretion is advised. This video is rated CV for Computer Violence.***

Her shocking last day, caught on tape



So many memories. . .

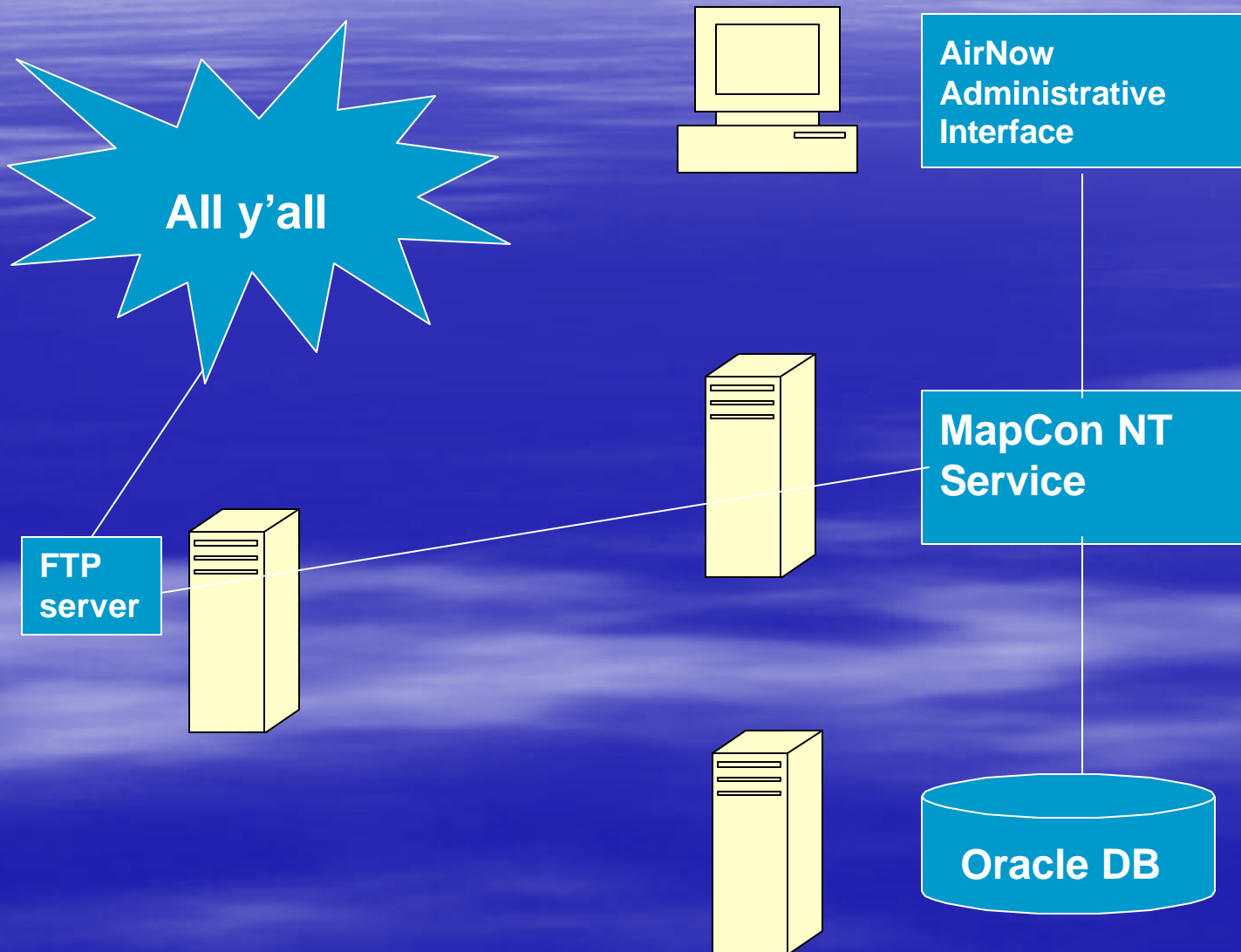
- Poring through OBS files
- Double checking her QA routine, but always finding out she was right
- After the firewall, trying to satisfy her insatiable appetite for real-time data.
- Updating her quirky station location file
- Trying to understand her TCL/TK scripts, but finally just letting her be herself.

But Seriously, Folks

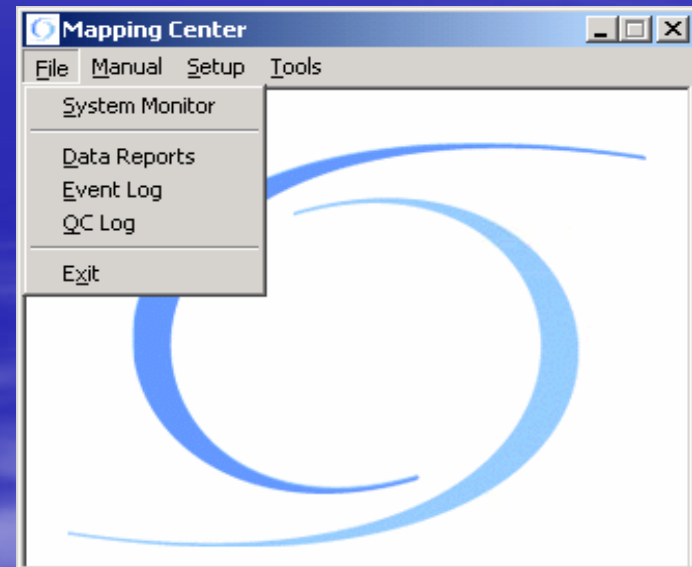
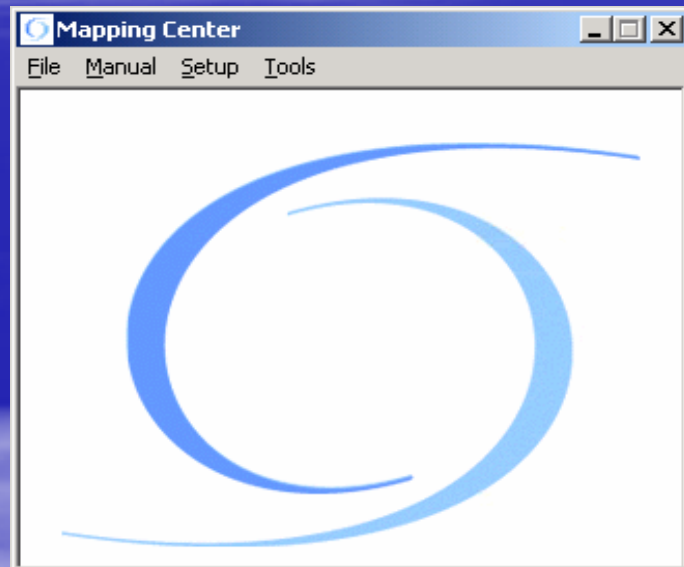
Since the last time we met. . .

- Sonoma Technologies completed the DCC redesign
- The “new DCC”, or DMC, was tested at EPA last summer
- Our Lockheed-Martin Task Order was terminated on December 12, 2001
- The contract to operate the new DMC was awarded to Sonoma on February 1, 2002.

The basics of DMC



The Admin Interface, in all its glory



The Agency Screen

Reporting Agencies

Reporting Agencies Information

Agency Name: Massachusetts Dept. of Environmental Pr

Agency Code: MA1

EPA Region: EPA Region 9

Address: Unknown

City: Unknown

State, ZIP Code: Massachusetts Unknown

Phone: 978-975-3215 x310

Fax: 978-688-0352

Data Offset to GMT: 5 hours

Reporting Frequency: Hourly

Import Data: ☒

Manual QC: ☒

Interpolate Data: ☒

AutoEmail: ☐

Sites Reported by this Agency

	AIRS Code	Site ID	Site Name
▶	250010002	None	TRURO
	250034002	None	ADAMS
	250051001	None	NORTH EASTON POST OFFICE
	250051002	None	FAIRHAVE
	250051005	None	EASTON
	250090005	None	LAWRENCE
	250092006	None	LYNN
	250094004	None	NEWBURY
	250130003	None	AGAWAM
	250130008	None	CHICOPEE
	250150103	None	AMHERST
	250154002	None	WARE
	250171102	None	STOW
	250232001	None	SCITUATE POLICE STATION
	250250041	None	LONGISLD
	250250042	None	ROXBURY2
	250270015	None	WORCABET

Email Notification Recipients

	First Name	Last Name	Email Address	Weekend Only
▶	Diana	Conti	diana.conti@state.ma.us	No

New

Delete

Select

New

Delete

Update

Close

The Site Screen

Site

Site Identification
AIRS Code: 060675003
Site ID: SLH
Site Name: SLH
Site Type: Real
Polling Agency ID: California
Geo Type: Rural
Elevation (ft): 50

Site Location
State: California
County: UNKNOWN
City: Sloughhouse

	Degrees	Minutes	Seconds	Dec. Deg.
Latitude:	38	29	41	38.4950
Longitude:	121	12	36	121.2100

Processing Information
Surrogate Slope: 0.8500
Surrogate Intercept: 0.0000
Status: Active

Buddy Sites

	AIRS Code	Site ID	Site Name
▶	060670006	None	DPM
	060670010	None	SAC
	060670011	None	BCV
	060670012	None	FON

NewDelete

Maps Using This Site

	Map ID	Map Description
▶	EAST	Eastern US
	SAC	Sacramento
	HOU	Houston

NewDelete

Proxy Site Equations

	AIRS Code	ParamID	Coefficient	Site Name

NewDelete

SelectNewDeleteUpdateClose

The Site Screen

Microsoft PowerPoint - [The Data Management Center]

E32 active-sites.dat

Auto

L 1 C 1 IA 224k C:\WINDOWS\active-sites.dat

File Block Text Search Window Clip Macro Print Util Options Help

active-sites.dat

000010102,	47,	33,	36,	52,	42,	41,	'ST. JOHN'S	NF1-1
000010301,	48,	56,	58,	57,	56,	45,	'CORNER BROOK	NF1-1
000020101,	46,	14,	26,	63,	7,	50,	'CHARLOTTETOWN	PE1-1
000020301,	46,	28,	42,	63,	59,	13,	'WELLINGTON	CN1-1
000030115,	44,	37,	34,	63,	31,	10,	'CFB SHEARWATER	NS1-1
000030118,	44,	38,	52,	63,	34,	20,	'HALIFAX	NS1-1
000030311,	46,	08,	33,	60,	10,	22,	'SYDNEY	CN1-1
000030501,	44,	26,	10,	65,	12,	20,	'KEJIMIKUIK NATIONAL PARK	AT1-1
000030701,	45,	0,	22,	65,	0,	0,	'AYLESFORD MOUNTAIN	NS1-1
000030801,	43,	50,	0,	66,	5,	0,	'DAYTON	AT1-1
000030901,	45,	40,	58,	62,	41,	43,	'PICTOU	CN1-1
000040002,	47,	9,	28,	67,	49,	48,	'ST LEONARD	NB1-1
000040103,	45,	57,	28,	66,	38,	51,	'FREDERICTON	NB1-1
000040203,	45,	18,	33,	66,	0,	33,	'FOREST HILLS	NB1-1
000040206,	45,	16,	11,	66,	3,	41,	'CUSTOMS BUILDING	NB1-1
000040207,	45,	15,	13,	66,	4,	49,	'HILLCREST	NB1-1
000040302,	46,	6,	36,	64,	47,	24,	'MONCTON	NB1-1
000040401,	45,	35,	28,	64,	59,	44,	'FUNDY NATIONAL PARK	NB1-1
000040501,	45,	4,	30,	66,	27,	59,	'PT LEPREAU	NB1-1
000040601,	45,	36,	15,	66,	33,	40,	'BLISSVILLE	NB1-1
000040701,	45,	38,	33,	65,	42,	10,	'NORTON	NB1-1
000040801,	45,	57,	12,	67,	28,	40,	'CANTERBURY	NB1-1
000040901,	45,	5,	21,	67,	4,	43,	'ST ANDREWS	NB1-1
000041001,	44,	51,	49,	66,	57,	4,	'CAMPOBELLO ISLAND	NB1-1
000041201,	47,	04,	15,	65,	25,	28,	'LOWER NEWCASTLE	CN1-1
000050102,	45,	33,	46,	73,	34,	20,	'JARDIN BOTANIQUE	QC2-1
000050103,	45,	38,	53,	73,	29,	59,	'PARC ST. JEAN BAPTISTE	QC2-1
000050113,	45,	32,	50,	73,	44,	50,	'STATIONNEMENT - ARENA CHOMEDEY	QC1-1
000050116,	45,	28,	50,	73,	34,	25,	'USINE DE FILTRATION	QC2-1
000050119,	45,	31,	23,	73,	29,	38,	'699 CURE POIRIER	QC1-1
000050121,	45,	26,	42,	73,	28,	12,	'PARC OCEANIE	QC1-1
000050126,	45,	26,	0,	73,	56,	0,	'STE-ANNE DE BELLEVUE	QC2-1
000050129,	45,	39,	25,	73,	34,	30,	'RIVIERE-DES-PRAIRIES	QC3-1
000050204,	45,	26,	13,	75,	43,	34,	'ECOLE DE L FLE	QC1-1
000050306,	46,	47,	17,	71,	15,	38,	'2026 BLVD. ST-CYRILLE	QC1-1
000050308,	46,	49,	17,	71,	13,	15,	'DES SABLES	QC1-1
000050309,	46,	46,	10,	71,	44,	9,	'1352 SAINT-ANGE	QC1-1
000051501,	46,	2,	31,	72,	39,	36,	'2 MAIN STREET	QC1-1
000052001,	46,	26,	33,	72,	53,	34,	'CHARETTE	QC1-1
000052101,	45,	12,	17,	73,	38,	40,	'L'ACADIE	QC3-1
000052201,	45,	42,	58,	72,	50,	29,	'SAINT-SIMON	QC1-1
000052301,	46,	2,	6,	74,	28,	55,	'SAINT-FAUSTIN	QC1-1
000052401,	45,	37,	20,	76,	1,	4,	'LA PECHE	QC1-1
000052601,	45,	43,	22,	73,	22,	35,	'VARENNES	QC1-1
000053201,	48,	49,	6,	72,	44,	34,	'PEMONCA	QC1-1
000053301,	46,	40,	56,	71,	58,	4,	'FERME RAMCO	QC1-1
000053401,	46,	50,	13,	71,	37,	22,	'CATHERINE	QC1-1
000053501,	47,	0,	53,	70,	51,	52,	'FRANÇOIS	QC1-1
000053601,	46,	51,	3,	70,	27,	10,	'N.-D.-DU-ROSAIRE	QC1-1
000053701,	45,	48,	56,	70,	51,	35,	'HILAIRE	QC1-1
000053801,	45,	54,	27,	71,	56,	57,	'TINGWICK	QC1-1
000053901,	47,	38,	50,	72,	17,	29,	'EDOUARD	QC1-1

F1-Help F2-AddLn F4-DupLn F5-ScrollTop F6-DeToEol F9-Shell F10-Menu

Slide 15 of 17 Clouds

Microsoft PowerPoint - [The Data Management Center] E32 active-sites....

1:03 AM

System Monitor Screen

System Monitor

As of: 10/29/01 17:26 (00:26 GMT) Show Last 240 Hours

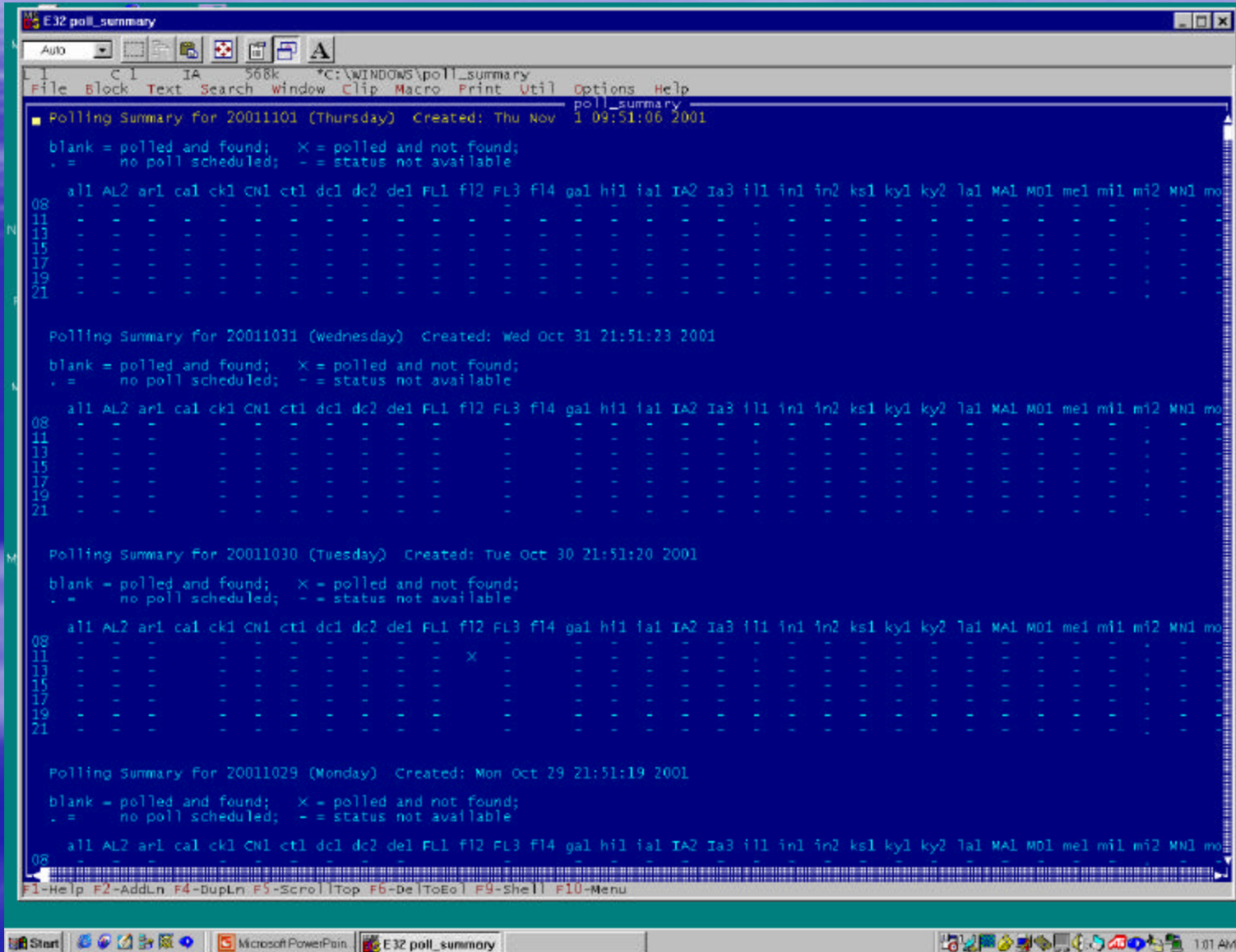
Data Ingest Status				
Time (GMT)	Agency ID	Agency Name	% Reporting	% Failed QC
10/24/01 20:00	Hi1	Hawaii State Dept of Health	100	0
10/24/01 19:00	CA5	Ventura County	100	0
10/24/01 19:00	CA3	South Coast AQMD	97	0
10/24/01 18:00	FL4	Tampa, Florida	75	0
10/24/01 18:00	FL2	Broward County	100	0
10/24/01 18:00	FL1	Florida DEP	53	0
10/24/01 18:00	TX1	TNRCC	50	0
10/24/01 18:00	AL2	Alabama1	90	0
10/24/01 18:00	CA5	Ventura County	100	0
10/24/01 18:00	Hi1	Hawaii State Dept of Health	100	0
10/24/01 18:00	CA1	California	72	0

Hourly OBS Creation Status			
Time (GMT)	Map ID	Map Name	% Sites Received
10/24/01 19:33	LOSA	Los Angeles Region Ground-Level Ozone	85
10/24/01 19:33	HOU	Houston	8
10/24/01 19:33	SACRA	Sacramento Region Ground-Level Ozone	70
10/24/01 19:33	EAST	Eastern US	8
10/24/01 19:25	LOSA	Los Angeles Region Ground-Level Ozone	49
10/24/01 18:57	PHNIX	Phoenix Region Ground-Level Ozone	24
10/24/01 18:57	LOSA	Los Angeles Region Ground-Level Ozone	89
10/24/01 18:57	VENTU	Ventura Region Ground-Level Ozone	92
10/24/01 18:57	DFW	Dallas-Fort Worth	49
10/24/01 18:57	HOU	Houston	17
10/24/01 18:56	NCT	North Central Texas	49

Event Log			
Time (GMT)	File Name	Event Type	Description
10/23/01 20:14		Failure	Failed to obtain Site for file: 102311.ga1 Site: FORTMT AIRScode: 132130003
10/23/01 20:14	102311.ck1	Success	Successfully processed OBS file: 102311.ck1
10/23/01 20:14	102311.ca3	Success	Successfully processed OBS file: 102311.ca3
10/23/01 20:14		Failure	Failed to obtain Site for file: 102311.ck1 Site: PONCA AIRScode: 400719003
10/23/01 20:14		Failure	Failed to obtain Site for file: 102311.ck1 Site: TAHLEQUA AIRScode: 400219002
10/23/01 20:14		Failure	Failed to obtain Site for file: 102311.ck1 Site: MIAMI AIRScode: 401159004
10/23/01 20:12	102311.CA2	Success	Successfully processed OBS file: 102311.CA2
10/23/01 20:11	102311.ca1	Success	Successfully processed OBS file: 102311.ca1

Close

System Monitor Screen



Airnow Status Website

AirNow Operational Status - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites History Print Mail News RSS Feeds

Address <http://www.airnowstatus.com/> Go

AIRNOW

Operational Status

February 04, 2002 01:35 (EDT)

News and Events

EPA National Air Quality Conference - February 3-6, 2002

- Hear the latest on air quality forecasting techniques and tools
- Find out about real-time mapping of ozone and fine particulate data
- Hear insiders' perspectives on air quality and emergency response
- Learn how to build local partnerships
- Hear success stories from ozone action programs
- Share ideas for increasing and maintaining community involvement
- Discuss media outreach opportunities

Polling Summary

Agency	Date / Time (EDT)
al1	09/27/01 11:00
al2	10/01/01 08:00
ar1	10/01/01 08:00
ca1	10/31/01 21:00
ck1	10/01/01 08:00
cn1	10/01/01 08:00
ct1	10/01/01 08:00
dc1	09/20/01 15:00
dc2	10/01/01 08:00
de1	10/01/01 08:00
fl1	10/29/01 08:00
fl2	10/31/01 21:00
fl3	09/13/01 08:00
fl4	10/31/01 21:00
ia1	10/01/01 08:00
is2	09/30/01 13:00

Scheduled Polls

Times are EDT

08:00
11:00
13:00
15:00
17:00
19:00
21:00

Color Legend

Green = Current
Yellow = 2 to 6 hrs old
Red = over 6 hrs old
Grey = Unknown status

Done Internet

Start Microsoft Power... Microsoft Power... AirNow Opera... 1:36 AM

How does this affect you?

- Polling
 - Simply change your FTP site
 - “Polling window” has been shattered
 - DMC is designed for hourly polling (who can’t?)
 - No 8AM previous day’s data poll
- Maps based on data completeness
 - Map produced when enough data comes in
 - First in, first out – rewards early submittal

How does this affect you?

- PM-Fine
 - DMC can, and has, processed and MAPPED it
 - Need QA/QC routines, “real time” surrogates



The future is bright

- The power of a database, combined with the accessibility of the web, will allow us to:
 - Let you update your own settings – QA/QC criteria, monitor locations, etc.
 - Let all partners perform advanced queries on the database, including real-time data and forecasts
 - Quickly and simply process, or reprocess, your data

EPA's Goal for the DMC



The Maytag Repairman

Stop by our Interacts Session

- Today at 3:30
 - Meet Craig Anderson of Sonoma
 - John White of EPA
 - Me
-
- Pay your last respects to the DCC